WHAT IS CLAIMED IS:

- 1. Engineered tissue comprising a suspension of anticoagulated plasma, a clotting agent and cells.
 - 2. An engineered tissue as described in claim 1, wherein the cells are stem cells.
- 3. An engineered tissue as described in claim 2, wherein the stem cells are committed stem cells.
- 4. An engineered tissue as described in claim 2, wherein the suspension further comprises differentiation inducers.
- 5. An engineered tissue described in claim 1, wherein the engineered tissue has a predetermined shape and the suspension has substantially the same predetermined shape.
- 6. A method of manufacturing an engineered tissue comprising mixing cells with anticoagulated plasma and a clotting agent to form a suspension.
 - 7. The method described in claim 6, wherein the cells are stem cells.
- 8. The method described in claim 7, wherein the stem cells are committed stem cells.
- 9. The method described in claim 7, wherein the step of mixing cells with anticoagulated plasma and a clotting agent further comprises mixing in differentiation inducers.
- The method described in claim 7, further comprising the preliminary step of providing a mold defining a predetermined shape and then mixing the suspension inside the mold.
- 11. An extracellular matrix for promoting cell growth comprising a suspension of anticoagulated plasma and a clotting agent.
- 12. An extracellular patrix as described in claim 11, wherein the suspension further comprises preselected DNA.

- 13. A method of manufacturing an extracellular matrix for promoting cell growth comprising mixing anticoagulated plasma and a clotting agent to form a suspension.
- 14. A method of manufacturing an extracellular matrix having a predetermined shape, the method comprising:

preselecting a mold adapted to make the predetermined shape, and filling the mold with a mixture of anticoagalated plasma, a clotting agent and cells.

15. A method for testing the effectiveness of cancer therapy treatments in vitro comprising:

manufacturing engineered tissue comprising anticoagulated plasma, a clotting agent and cancer cells;

preparing a plurality of samples of the engineered tissue;

subjecting a plurality of cancer therapy treatments to a respective plurality of samples of engineered tissue; and

evaluating the relative effectiveness of the cancer therapy treatment agents.

- 16. The method as described in claim 15, wherein the cancer cells are obtained from a patient who is in need of cancer therapy treatments.
- 17. An engineered tissue as described in claim 1, further comprising preselected DNA.
- 18. An engineered tissue as described in claim 17, wherein the preselected DNA is incorporated into the cells.
- 19. An engineered tissue as described in claim 18, wherein the preselected DNA is incorporated into the cells by using nonviral techniques.
- 20. The method described in claim 6 further comprising the step of adding sufficient fibrinolytic inhibitors at the time of mixture to prevent degradation of the resulting fibrin matrix before about two days.

- 21. The method described in claim 6, wherein the anticoagulated plasma contains a sufficient concentration of anticoagulates to prevent the resulting fibrin matrix formation from being compete until more than ten seconds after the mixture of anticoagulated plasma, clotting agent, and cells.
- 22. The method described in claim 6, further wherein the clotting agents have a low enough concentration to prevent the resulting fibrin matrix formation from being complete until more than ten seconds after the mixture of anticoagulated plasma, clotting agent, and cells.